Sl. No	Description of work	Unit	No.	L	B	D	Quantity	Rate in Rs	Amount in Rs
				m	m	m			
	Cross Roads		2.00	10.00	0.20	0.60	2.40		
			2.00	8.00	0.25	0.90	3.60		
			2.00	8.00	0.20	0.60	1.92		
							7.92		
					Total Quantity		47.82	7636.68	365185.97
E4	KSRRB M 2200-6 Providing T M T steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 229 Item No 28.8.2 SR 2018-19								
	Consider steel for drain 80kg/cum	Tn			31.50	0.06	1.89		
	Consider steel for culvert 80kg/cum	Tn			16.32	0.09	1.47		
					Total Quantity		3.3588	75936.1	255054.16
E5	Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete with all lead and lift and as per the direction of Engineer in-charge								
	Take 40% Missing stone in ITEM No E1	sqm		Total Quantity			465.84	779.03	362901.38
E6	KSRB 5.2-3: Providing and constructing granite / trap / baslt size stone masonary in foundation with cement mortar , stone hammered dressed in course not less than 20 cms high, bond stones at 2m Apart in each course including cost materials , labours , curing complete as per specifications. KBS-5.1.13 , cement mortar 1:6 KBS-5.1.13 (P.No-25, I.No-5.6).								
	SSM Culvert	Cum							
	2ND MAIN ROAD 5TH PHASE RHS		4.00	5.00	0.45	0.80	7.20		
			2.00	6.00	0.45	0.80	4.32		
	2ND MAIN ROAD 5TH PHASE LHS		4.00	5.00	0.45	0.80	7.20		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD LHS		4.00	4.00	0.45	0.80	5.76		
			4.00	5.00	0.45	0.80	7.20		
			2.00	7.00	0.45	0.80	5.04		
			2.00	9.50	0.45	0.80	6.84		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD RHS								
			6.00	3.50	0.45	0.80	7.56		
			4.00	6.00	0.45	0.80	8.64		
			2.00	7.00	0.45	0.80	5.04		
			2.00	8.00	0.45	0.80	5.76		
	SSM foundation								
			1.00	104.00	0.45	0.80	37.44		
				Total Quantity			108	5114.86	552404.97

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Sl. No.	Description of work	Unit	No.	L m	B m	D m	Quantity	Rate in Rs	Amount in Rs
03	KSRR 4.1.6: Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC at 3 bags with 20mm and down size granite metal coarse aggregates at 0.8 t/m cum and fine aggregates at 0.43 cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well connected to foundation / plinth and cills, including cost of materials, labours, 10 cbd curing complete as per specifications specification No: KSR 4.1.4.3 (P No 14, 1 Nov 65)								
	Drain	Cum							
	For Flagging Course P.C.C								
	2ND MAIN ROAD 5TH PHASE RHS		2.00	124.00	0.20	0.15	7.44		
	2ND MAIN ROAD 5TH PHASE LHS		2.00	131.00	0.20	0.15	7.86		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD LHS		2.00	196.00	0.20	0.15	11.76		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD RHS		2.00	196.00	0.20	0.15	11.76		
	SSM foundation								
			1.00	104.00	0.45	0.15	7.02		
	For Flagging Course Coping								
	2ND MAIN ROAD 5TH PHASE RHS		2.00	124.00	0.15	0.10	3.72		
	2ND MAIN ROAD 5TH PHASE LHS		2.00	131.00	0.15	0.10	3.93		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD LHS		2.00	196.00	0.15	0.10	5.88		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD RHS		2.00	196.00	0.15	0.10	5.88		
	SSM foundation								
			1.00	104.00	0.45	0.10	4.68		
	NEW SSM Culvert Coping								
	2ND MAIN ROAD 5TH PHASE RHS		4.00	5.00	0.45	0.10	0.90		
			2.00	6.00	0.45	0.10	0.54		
	2ND MAIN ROAD 5TH PHASE LHS		4.00	5.00	0.45	0.10	0.90		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD LHS		4.00	4.00	0.45	0.10	0.72		
			4.00	5.00	0.45	0.10	0.90		
			2.00	7.00	0.45	0.10	0.63		
			2.00	9.50	0.45	0.10	0.86		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD RHS								
			6.00	3.50	0.45	0.10	0.95		
			4.00	6.00	0.45	0.10	1.08		

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Sl. No.	Description of work	Unit	No.	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
			2.00	7.00	0.45	0.10	0.63		
			2.00	8.00	0.45	0.10	0.72		
	NEW SSM Culvert vent								
	2ND MAIN ROAD 5TH PHASE RHS		2.00	5.00	0.90	0.10	0.90		
			1.00	6.00	0.90	0.10	0.54		
	2ND MAIN ROAD 5TH PHASE LHS		2.00	5.00	0.90	0.10	0.90		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD LHS		2.00	4.00	0.90	0.10	0.72		
			2.00	5.00	0.90	0.10	0.90		
			1.00	7.00	0.90	0.10	0.63		
			1.00	9.50	0.90	0.10	0.86		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD RHS								
			3.00	3.50	0.90	0.10	0.95		
			2.00	6.00	0.90	0.10	1.08		
			1.00	7.00	0.90	0.10	0.63		
			1.00	8.00	0.90	0.10	0.72		
					Total Quantity		87.57	6034.11	528407.12
E8	KSRB 5-14: providing and constructing load bearing wall with solid concrete blocks of size 400mm*150mm*200mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00N/mm2 confirming to IS 2185(part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of materials , labour charges , scaffolding, curing, complete as per specifications. KBS No.5.4 I.No.5.26.2, page no27								
	Drain	sqm							
	For Flagging Course								
	2ND MAIN ROAD 5TH PHASE RHS		2.00	124.00		0.40	99.20		
	2ND MAIN ROAD 5TH PHASE LHS		2.00	131.00		0.40	104.80		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD LHS		2.00	196.00		0.40	156.80		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD RHS		2.00	196.00		0.40	156.80		
					Total Quantity		517.6	1028.31	532255.36
E9	Providing and Fixing RCC pre cast covering Slab of 100mm thick for drains in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforecement , inclunding form work, lift charges, curing and concrete finishined surfaces on both side etc., complete as per drawing and the directions of Engineer in-charge.(Date rate)								
	Drain	Sqm							
	2ND MAIN ROAD 5TH PHASE RHS		1.00	124.00	1.20		148.80		

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Sl. No.	Description of work	Unit	No	L m	B m	D m	Quantity	Rate in Rs	Amount in Rs
	2ND MAIN ROAD 6TH PHASE LHS		1.00	131.00	1.20		157.20		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD LHS		1.00	196.00	1.20		235.20		
	New RCC Drain								
	CROSS ROAD		1.00	100.00	0.90		90.00		
					Total Quantity		866.4	2453.62	2125812.90

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Sl. No.	Description of work	Unit	No.	L m	B m	D m	Quantity	Rate in Rs.	Amount in Rs.
E10	Providing and Fixing pre cast covering Slab (Hilson deck made out of M25 and jelly 20mm Down) size with steel reinforcement including form work,curing including cost of all materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc .complete As per Engineer incharge. (Data Rate)								
	NEW SWM Culvert	NOS							
	2ND MAIN ROAD 5TH PHASE RHS		2.00	5.00	1.80		18.00		
			1.00	6.00	1.80		10.80		
	2ND MAIN ROAD 5TH PHASE LHS		2.00	5.00	1.80		18.00		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD LHS		2.00	4.00	1.80		14.40		
			2.00	5.00	1.80		18.00		
			1.00	7.00	1.80		12.60		
			1.00	9.50	1.80		17.10		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD RHS								
			3.00	3.50	1.80		18.90		
			2.00	6.00	1.80		21.60		
			1.00	7.00	1.80		12.60		
			1.00	8.00	1.80		14.40		
	New rcc culvert								
	CROSS ROADS		1.00	10.00	1.20		12.00		
			1.00	8.00	1.50		12.00		
			1.00	8.00	1.20		9.60		
					Total Quantity		210.00	5688.36	1194555.18
E11	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire chargee of machinery, loading, unloading, lead and lift, transportation etc., complete.								
	KERB	No's							
	2ND MAIN ROAD 5TH PHASE RHS		1.00	124.00			124.00		
	2ND MAIN ROAD 5TH PHASE LHS		1.00	131.00			131.00		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD LHS		1.00	196.00			196.00		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD RHS		1.00	196.00			196.00		
	Onake obavva park inside footpath kerb		1.00	100.00			100.00		
			1.00	86.00			86.00		

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Sl. No	Description of work	Unit	No	L	B	D	Quantity	Rate in Rs	Amount in Rs	
	Cross roads		1.00	100.00			100.00			
							0.45	2073.333	454.861	943767.94
						Total Quantity		2073		
E12	KSRRB 500-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces with materials, labour complete as per specifications M/s!!!! Chapter 8									
	KERB	SQM						49.60		
	2ND MAIN ROAD 8TH PHASE RHS		1.00	124.00	0.40			52.40		
	2ND MAIN ROAD 8TH PHASE LHS		1.00	131.00	0.40			78.40		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD LHS		1.00	196.00	0.40			78.40		
	SHIVAKUMAR SWAMY SABHAGANA SIDE MAIN ROAD RHS		1.00	196.00	0.40			40.00		
	Onake obavva park inside footpath kerb		1.00	100.00	0.40			34.40		
			1.00	86.00	0.40			40.00		
			1.00	100.00	0.40					
	Cross roads						Total Quantity	373.2	89.03	33226.00
E13	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. with all lead and lift and as per direction of Engineer In-charge									
		cum	Asphalt							
	CROSS ROAD 1		1.00	344.00	9.00	0.225		696.60		
	CROSS ROAD 2		1.00	180.00	6.00	0.225		243.00		
						Total Quantity		939.60	2101.14	1974234.78
E14	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and sparying primer at the rte of 0.60 kg /sqm using mechanical means complete as per specifications with all lead and lift and as per the direction of Engineer in-charge									
		Sqm	Asphalt							
	CROSS ROAD 1		1.00	344.00	9.00			3096.00		
	CROSS ROAD 2		1.00	180.00	6.00			1080.00		
						Total Quantity		4,176.00	30.05	125481.02
E15	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of materials , labour, HOM complete as per specification with all lead and lift and as per the direction of Engineer in-charge.									
		Sqm	Asphalt							
	CROSS ROAD 1		1.00	344.00	9.00			3096.00		
	CROSS ROAD 2		1.00	180.00	6.00			1080.00		
						Total Quantity		4,176.00	13.35	55769.34

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Sl. No.	Description of work	Unit	No.	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
E16	KSRRB M500-17 Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P with mechanical paver Gr-II (50mm to 70mm) with 4.5% VG-30 bitumen with all lead and lift and as per the direction of Engineer in-charge.								
		cum	Asphalt				154.80		
	CROSS ROAD 1		1.00	344.00	9.00	0.05			
	CROSS ROAD 2		1.00	180.00	6.00	0.05	54.00		
					Total Quantity		208.80	6926.65	1446284.99
E17	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP- 53-2015 do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) with all lead and lift and as per the direction of Engineer in-charge.								
		cum	Asphalt				123.84		
	CROSS ROAD 1		1.00	344.00	9.00	0.04			
	CROSS ROAD 2		1.00	180.00	6.00	0.04	43.20		
					Total Quantity		167.04	8140.82	1359842.51
E18	KSRRB M800-13. Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications with all lead and lift and as per the direction of Engineer in-charge								
		Sqm	Asphalt				103.20		
	CROSS ROAD 1		2.00	344.00	0.15				
			1.00	229.33	0.10		22.93		
	CROSS ROAD 2		2.00	180.00	0.15		54.00		
			1.00	120.00	0.10		12.00		
					Total Quantity		192.13	477.43	91730.51
	Size Reduced onake obavva park								
E19	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 page no 6 item no 2.3								
	SSM foundation	cum							
			1.00	104.00	0.75	0.40	31.20		
							31.2	414.10	12919.97

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Sl. No	Description of work	Unit	No.	L	B	D	Quantity	Rate in Rs	Amount in Rs.
6.01	Fabricating, providing and erecting in position of MS like Ms galvanized sq hollow poles of 152 x 152 heavy gauge length 7400mm, with MS like Ms galvanized grill work as per approved design and drawing of chief architect using 12 x 75mm galvanized flat for abroad frame and 30 x 30mm galvanized forged ornamental arrow head in top and bottom the work is inclusive of thoroughing the square rods placing welding all the joints including grinding finishing 3 coats of anticorrosive paint over one coat of metal primer the rate is inclusive of all materials all items of work cost painting welding cutting grinding with load and lift as per specifications including loading and								
	Sft area	Sqft	1.00	104.00	1.50		156.00		
							156	9600.43	1497667.48
6.02	Fabricating, providing and erecting in position like dip galvanized Gate Using 75x75x4.8 mm Sq. G I Pipe Frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 50mm hot dip galvanized sq rod for verticals at 150mm c/c , as shown in the drawing including providing hot dp galvanized forged ornamental design in between rods and heads at top, middle and bottom Intermediate supports of 75x12mm and 50x6mm arch bent to hot dip galvanized flats The work is inclusive of thoroughing GI, Flat GI Spin rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting The rate is inclusive of all materials Like GI Sq. GI Pipe, GI Forged designs etc., heavy duty hinges are made out of 75mm solid sq. Block assembled with 20mm dia bearing in three places for each flap Heavy duty locking arrangement at few places including cost of labour, painting, erection charges using hoist pulley cranes with all load and lift, loading, transportation, unloading, scaffolding charges and all other								
	Gate								
		sqm	1.00	4.00	2.00		8.00		
							8	13097.53	104780.24
							Sub Total Rs		92093526.06
							Missalaneous & Rounded Off		2117.94
							Total Rs		92095644.00
							GST 12%		11051477.28
							GRAND TOTAL		103147121.28

CERTIFICATE

1. The work spot has been inspected by me and the work is found to be necessary
2. The estimate is prepared as per PW. P&AWTD S R Bangalore circle for the year 2018-2019
3. The Provisions made in the estimate are quite necessary and adequate
4. The area comes with in the BBMP limits

Executive Engineer
Project Division Yelahanka
BBMP

Assistant Executive Engineer
Project Division Yelahanka
BBMP

Executive Engineer
Project Division Yelahanka
BBMP

Technical Sanction
Accorded For
Head of A/C
CER.NO

DE (Y&K)

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